

Converting Colors

XYZ(9.8706, 12.2024, 20.3778)

Have a look what the booklet for
XYZ(9.8706, 12.2024, 20.3778)
contains.

XYZ(9.8310, 12.1613, 20.2416)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(9.8310, 12.1613,
20.2416)**

Conversions

Conversions Part 1

Format	Color
Hex	31697A
RGB	49, 105, 122
RGB Percent	19%, 41%, 48%
CMY	0.8078, 0.5882, 0.5216
CMYK	0.60, 0.14, 0.00, 0.52
HSL	194°, 43%, 34%
HSV	194°, 60%, 48%
XYZ	9.8310, 12.1613, 20.2416
YIQ	90.1940, -38.8330, -6.5850

Conversions

Conversions Part 2

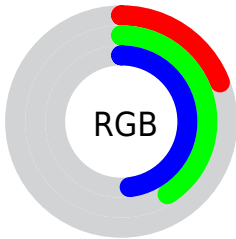
Format	Color
R_{YB}	49, 81, 122
Decimal	3238266
CIE _{Lab}	41.47, -13.02, -15.06
CIE _{LCh}	41, 19.903, 229.158
Yxy	12.1613, 0.2328, 0.2880
Android (android.graphics.Color)	4281428346 (0xFF31697A)
YUV	90.1940, 15.6804, -36.1271
Hunter-Lab	34.8731, -10.7072, -10.0030

Details

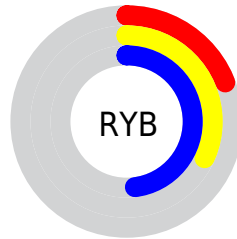
The XYZ color **9.8310, 12.1613, 20.2416** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **10.5288, 8.2559, 3.9445**, and the grayscale version is **9.7342, 10.2411, 11.1526**.

A 20% lighter version of the original color is **25.0079, 29.6577, 44.4509**, and **2.7157, 3.5072, 6.8371** is the 20% darker color. If you saturate the color by 10%, you get **9.0360, 11.3293, 20.1231**, and if you desaturate by 10%, it is **10.7958, 13.0957, 20.3713**.

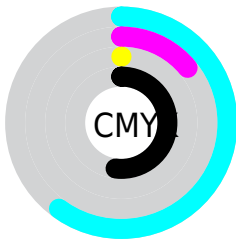
Distribution



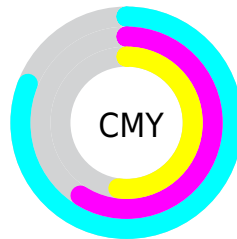
- Red (19%)
- Green (41%)
- Blue (48%)



- Red (19%)
- Yellow (32%)
- Blue (48%)



- Cyan (60%)
- Magenta (14%)
- Yellow (0%)
- Black (52%)



- Cyan (81%)
- Magenta (59%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 9.8310, 12.1613, 20.2416 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 9.8310, 12.1613, 20.2416 by changing the saturation by 10% instead.

■ 9.8310, 12.1613,
20.2416

■ 9.8310, 12.1613,
20.2416

■ 183.5405,
205.4702, 265.8674

■ 5.3485, 6.8536,
12.3850

■ 25.1297, 29.7885,
44.6862

■ 2.4900, 3.3707,
6.8807

■ 36.6766, 42.8769,
62.1112

■ 0.8902, 1.3282,
3.3103

■ 51.3090, 59.3276,
83.5627

■ 0.0000, 0.1629,
1.2552

■ 69.3922, 79.5251,
109.4593

■ 0.0000, 0.0000,
0.0246

■ 91.2916, 103.8537,
140.2196

■ 0.0000, 0.0000,
0.0000

■ 117.3725,

132.6978, 176.2620

148.0004,
166.4418, 218.0051

■ 9.8310, 12.1613,
20.2416

■ 9.8310, 12.1613,
20.2416

■ 9.0360, 11.3293,
20.1231

■ 10.7958, 13.0957,
20.3713

■ 8.3963, 10.5913,
20.0144

■ 11.9411, 14.1374,
20.5120

■ 7.8969, 9.9397,
19.9150

■ 13.2779, 15.2925,
20.6645

■ 7.4860, 9.3477,
19.8223

■ 14.8162, 16.5661,
20.8293

■ 7.4794, 9.3381,
19.8208

■ 16.5650, 17.9632,
21.0068

■ 18.5330, 19.4883,
21.1974

■ 20.7282, 21.1456,
21.4016

■ 23.1582, 22.9394,
21.6198

■ 25.8305, 24.8733,
21.8522

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



9.1219, 12.1613, 16.0365



9.8310, 12.1613, 20.2416



11.0428, 12.1613, 22.7259

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



9.8310, 12.1613, 20.2416



14.5169, 12.1613, 14.7998



10.6685, 12.1613, 7.0440

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



9.8310, 12.1613, 20.2416



10.5288, 8.2559, 3.9445

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



12.0910, 12.1613, 6.8492



9.8310, 12.1613, 20.2416



14.3955, 12.1613, 10.7918

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



9.8310, 12.1613, 20.2416



13.7974, 12.1613, 19.1751



13.4784, 12.1613, 8.0761



9.5768, 12.1613, 8.6789

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



9.8310, 12.1613, 20.2416



12.0081, 12.1613, 22.7843



13.4784, 12.1613, 8.0761



11.1212, 12.1613, 6.8230

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



9.8314, 12.1618, 20.2419



26.4742, 29.4755, 36.6869



9.1752, 14.9518, 7.3758



5.8945, 6.6106, 8.3720



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



9.8314, 12.1618, 20.2419



15.4266, 19.4058, 35.3255



6.9501, 6.3991, 19.2815



4.0317, 4.3617, 5.0726



7.8680, 9.8185, 20.8658



36.8593, 45.4912, 99.3078

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



11.6744, 7.3544, 14.1694



19.1680, 10.7555, 22.7498



13.2651, 13.7286, 4.8566



4.1165, 4.0623, 4.8110



10.5548, 5.1981, 11.4782



50.0080, 24.6595, 52.9655

Previews

White Background



This preview shows how the XYZ color 9.8310, 12.1613, 20.2416 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 9.8310, 12.1613, 20.2416 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 9.8310, 12.1613, 20.2416

Background



This preview shows how black text looks on a background with the XYZ color 9.8310, 12.1613, 20.2416.



This preview shows how white text looks on a background with the XYZ color 9.8310, 12.1613,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

9.8310, 12.1613, 20.2416

Protanopia

11.9413, 12.1375, 18.2364

Deuteranopia

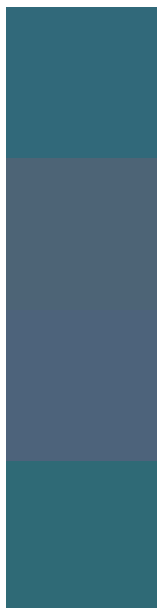
12.3352, 12.1481, 20.7635



Tritanopia

9.3753, 12.1267, 18.0662

Trichromacy



Original Color

9.8310, 12.1613, 20.2416

Protanomaly

10.8878, 12.0001, 18.8820

Deuteranomaly

11.0976, 11.9315, 20.4570

Tritanomaly

9.5963, 12.2204, 18.9925

Monochromacy



Original Color

9.8310, 12.1613, 20.2416

Achromatopsia

9.7181, 10.2242, 11.1341

Achromatomaly

9.3921, 10.6396, 14.1290

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.8310, 12.1613, 20.2416 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(49, 105, 122)` looks like.

```
.text, #text, p{  
    color:rgb(49, 105, 122)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(49, 105, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 105, 122) }
```

Border

The CSS property to change the border of an element to XYZ 9.8310, 12.1613, 20.2416 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(49, 105, 122) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(49, 105, 122) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(49, 105, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 105, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 105, 122);  
box-shadow:4px 4px 4px 4px rgb(49, 105,  
122) }
```

Background

The CSS property to change the background color of an element to XYZ 9.8310, 12.1613, 20.2416 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 105, 122) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(49, 105,  
122) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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